

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Takeru WATANABE et al.  
Appl. No.: NEW Group:  
Filed: May 20, 2004 Examiner:  
For: BASIC COMPOUND, RESIST COMPOSITION AND  
PATTERNING PROCESS

INFORMATION DISCLOSURE STATEMENT  
(SUBMISSION CONCURRENT WITH THE  
FILING OF A NEW PATENT APPLICATION)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

May 20, 2004

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- a. ☐ This application was filed before June 30, 2003. Accordingly, submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- b. ☒ This application was filed on or after June 30, 2003. Accordingly, copies of cited US patents and patent application publications therefore are not included. Copies of foreign patent documents and non-patent literature are included.

- c. ☐ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

- a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The patents, publications, or other information listed on the attached PTO 1449 are in the English language and therefore, do not require a statement of relevancy.

- b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

An English language Abstract is provided for all documents not listed in the English language, thereby satisfying the relevancy requirements.

- c. ☐ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3).

- d. ☒ **OTHER**

The following additional information is provided for the Examiner's consideration.

JP60194834 corresponds to US5,691,100.  
JP6-242605 and JP6-242606 correspond to  
US5,525,453 and US5,843,319.  
JP6-263716 corresponds to US5,612,169.  
JP6-263717 corresponds to US5,442,087 and  
US5,529,886.  
JP6-266111 corresponds to US6,703,181.  
JP7-134419 corresponds to US5,658,706 and  
US5,744,281.

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By   
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GMM/nl  
0171-1100PUS1

Attachment(s): ☒ Form PTO-1449(s)  
☒ Documents  
☐ Foreign Search Report  
☐ Fee  
☐ Other: \_\_\_\_\_

(Rev. 02/12/2004)

Form PTO-1449				ATTY. DOCKET NO. 0171-1100PUS1		APPLICATION NO. NEW	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)				APPLICANT Takeru WATANABE et al.			
				FILING DATE May 20, 2004		GROUP	

  

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	Kind	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	US 5,691,100	A	1997-11-25	Kudo et al.			
	US 5,525,453	A	1996-06-11	Przybilla et al.			
	US 5,843,319	A	1998-12-01	Przybilla et al.			
	US 5,612,169	A	1997-03-18	Eichhorn et al.			
	US 5,442,087	A	1995-08-15	Eichhorn et al.			
	US 5,529,886	A	1996-06-25	Eichhorn et al.			
	US 6,703,181	A	2004-03-09	Hayashi et al.			
	US 5,658,706	A	1997-08-19	Niki et al.			
	US 5,744,281	A	1998-04-28	Niki et al.			
	US 6,004,724	A	1999-12-21	Yamato et al.			

  

FOREIGN PATENT DOCUMENTS									
	Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
								YES	NO
	JP	2-27660	B2	1990-06-19	JAPAN			ABS	
	JP	63-27829	A	1988-02-05	JAPAN			ABS	
	JP	5-232706	A	1993-09-10	JAPAN			ABS	
	JP	5-249683	A	1993-09-28	JAPAN			ABS	
	JP	5-158239	A	1993-06-25	JAPAN			ABS	
	JP	5-249662	A	1993-09-28	JAPAN			ABS	
	JP	5-257282	A	1993-10-08	JAPAN			ABS	
	JP	5-289322	A	1993-11-05	JAPAN			ABS	
	JP	5-289340	A	1993-11-05	JAPAN			ABS	

  

OTHER DOCUMENTS	
(Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)	
	HINSBERG et al., "Fundamental studies of airborne chemical contamination of chemically amplified resists", Journal of Photopolymer Science and Technology, Vol. 6, No. 4, 1993, 535-546.
	KUMADA et al., "Study on over-top coating of positive chemical amplification resists for KrF excimer laser lithography", Journal of Photopolymer Science and Technology, Vol. 6, No. 4, 1993, 571-574.
	HATAKEYAMA et al., "Investigation of discrimination enhancement with new modeling for poly-hydroxystyrene positive resists", Journal of Photopolymer Science and Technology, Vol. 13, No. 4, 2000, 519-524.

  

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449				ATTY. DOCKET NO. 0171-1100PUS1		APPLICATION NO. NEW			
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)				APPLICANT Takeru WATANABE et al.					
				FILING DATE May 20, 2004		GROUP			
<b>U.S. PATENT DOCUMENTS</b>									
EXAMINER INITIAL	DOCUMENT NUMBER	Kind	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
	US 6,261,738	B1	2001-07-17	Asakura et al.					
<b>FOREIGN PATENT DOCUMENTS</b>									
	Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
								YES	NO
	JP	6-194834	A	1994-07-15	JAPAN			ABS	
	JP	6-242605	A	1994-09-02	JAPAN			ABS	
	JP	6-242606	A	1994-09-02	JAPAN			ABS	
	JP	6-263716	A	1994-09-20	JAPAN			ABS	
	JP	6-263717	A	1994-09-20	JAPAN			ABS	
	JP	6-266100	A	1994-09-22	JAPAN			ABS	
	JP	6-266111	A	1994-09-22	JAPAN			ABS	
	JP	7-128859	A	1995-05-19	JAPAN			ABS	
	JP	7-92678	A	1995-04-07	JAPAN			ABS	
	JP	7-92680	A	1995-04-07	JAPAN			ABS	
	JP	7-92681	A	1995-04-07	JAPAN			ABS	
	JP	7-120929	A	1995-05-12	JAPAN			ABS	
	JP	7-134419	A	1995-05-23	JAPAN			ABS	
	JP	2000-314956	A	2000-11-14	JAPAN			ABS	
	JP	9-95479	A	1997-04-08	JAPAN			ABS	
	JP	9-230588	A	1997-09-05	JAPAN			ABS	
	JP	9-208554	A	1997-08-12	JAPAN			ABS	
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